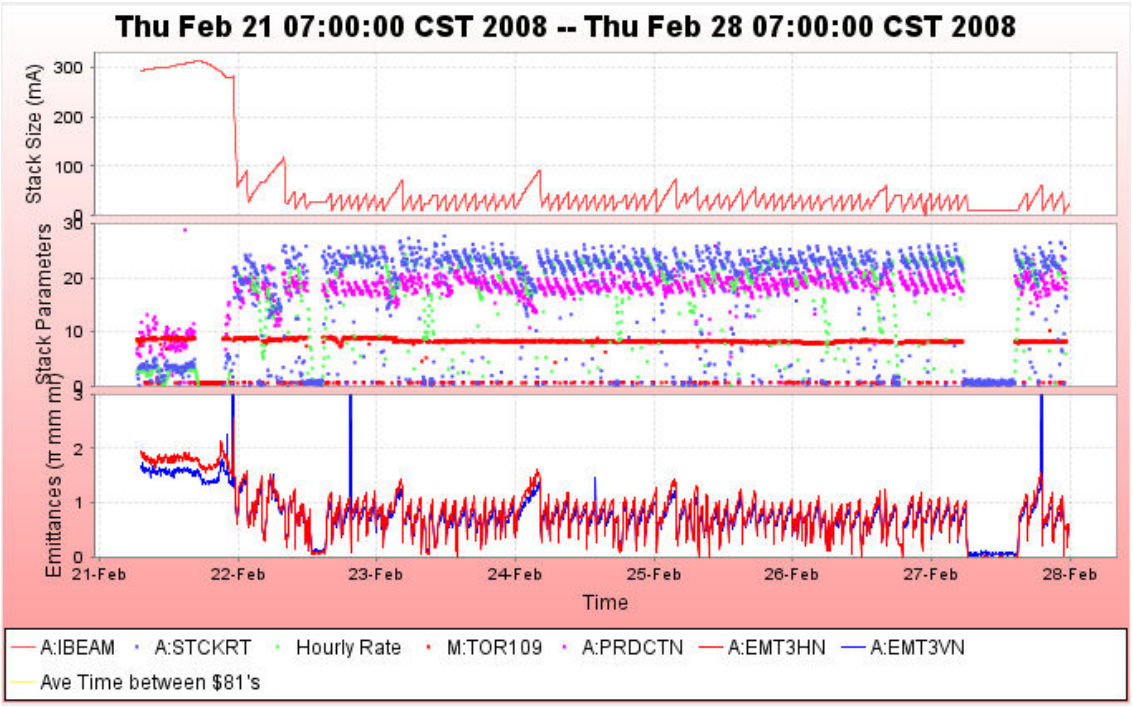
2008-02-28 Pbar Department Meeting

Thursday, February 28, 2008
9:55 AM

- Performance
- 

  - Records
  - Second record week was 3045.37mA stacked
  - Record 152.6 stacking hours.
  - Record stack 313.60mA
  - When stacking stopped, we unstacked with large stacks.
    - 1st time, raising ARF2 voltage
    - 2nd time, sweeping ARF2 to low frequency side of core.
  - Last 6 week of runnning
    - Yellow POT
    - Green - DCCT in deb. 5-3
    - Blue bpi10d - amount that cooling captures
    - When we went to 29s, not realized beam in debuncher.
    - Sckrt 18-34
  - 4 days
    - a:ibeam vs stack rate
    - 1/29, 2/8, 2/17, 2/26
  - Mainenance
    - Target station
      - Drain and refill dump water skid
      - Target blower failed. Burned out bearings on the blower….no PM is to grease the bearings.
    - Accumulator DCCT
    - D:Q724 - output droppping to zero… removed connector on backplane…replaced it.
    - ARF1
      - ENI and driver HV swapped
    - Pbar HE
  - Tunnel

        - DRF1-3
        - Vertical damper pickup.
    - Cooling
        - Debuncher Momentum
            - Gain ramps - done
            - Double optical notch filter ready
        - Plans
            - Core transverse
            - Debuncher Mom. Equalizer
    - Flusher
        - Now raise the ARF V as the stack size increases.
        - In the future, will change frequency sweep...
    - Cycle Time Study
        - Peak stack rates -
        - 2.2 sec to 2.4, not as much gains as there used to be.
        - Suspect that it is cooling . … further studies…..
    - Lens
        - Steering study
            - Changed lens gradient, took bpm data
            - Bottom line
            - Some years ago thought steering hor with lens.
            - Now appears to not be a problem….
        - Status of spares
            - 10-mm2 fix in January
            - Then 10mm-1 80mR/hr on contact….have transformer ready if desperate for a spare.
            - Getting ready to fill 10-mm-5 - tested by may?
            - 10mm-6 read to fill shortly after.
    - Transfers
        - SDA and Fuloughed.
        - Close to being able to stack during transfers.
        - Problem is that on the edge with size of emittances in acc, transfer eff impacted by this.
        - Will tweek what we can, but if we can get the emittances down by 1/3, would help.
    - Back burner
        - Debuncher Cooling
        - Lens Gradient -
        - Proton Spot Size
    - Leave Calendar
    - a
    - Yearly production, in first 8 weeks, 20,000e10.
    - MI will modify $29 ramp early next week….